

**IN THE CLAIMS:**

1. (Cancel)
2. (Currently Amended) A method according to claim ~~1~~ 6, wherein during the measuring phase at least one quasi-stationary measurement is performed ~~during the pre-established measuring phase~~ in a multi-dimensional performance graph in which always one variable is changed, one is measured, and the remaining variables are kept constant .
3. (Original) A method according to claim 2, wherein said measurement is n, M or  $\alpha$  (pedal valuator position)
4. (Currently Amended) A method according to claim 2, wherein during the measuring phase at least one dynamic measurement is additionally performed ~~in the pre-established measuring phase~~ in which one of the variables is changed in great steps, one is measured, and the remaining variables are kept constant.
5. (Currently Amended) A method according to ~~one~~ claim ~~1~~ 6, whereby [the] sequence accuracy of the driving profile is changed through different weighting of factors of the parameters during the determination of the set point defaults whereby the type of simulated driver is changed as well.
6. (New) A method for controlling a test bench for an internal combustion engine connected on a drive side to a dynamometer brake and intended as a drive engine of a vehicle whereby a vehicle model and a driving profile for the vehicle are preset through a test bench computer

and whereby the internal combustion engine runs through identical operating points as in a preset driving cycle corresponding to the vehicle model and set point defaults of the control units of the internal combustion engine and the dynamometric brake as determined by test bench design, comprising the sequential steps of determining parameters of the set point defaults by operating the internal combustion engine in a measuring phase, inputting said parameters as initial parameters in said test bench computer, running said internal combustion engine in an actual test run, and monitoring operational variables of said internal combustion engine for adjustment of said parameters in said test bench computer.